

TRENDSETTERS

Glass recycling plant opened by **REDWAVE** is largest in Australia

The recent opening ceremony at Laverton site in Melbourne marked the culmination of a ground-breaking collaboration between Redwave and Visy - a leader in glass recycling and manufacturing in both Australia and New Zealand. This saw the two embarking together on a revolutionary project that's set to redefine glass recycling in Australia. Cutting-edge in every sense, the facility is equipped with the latest sorting technology - thereby replacing its forebear while introducing a new era in

sustainable glass management.

Wayne Russell, Executive General Manager of Recycling at Visy, emphasized the commitment to closing the loop for glass in Victoria. Said Russell: "By building our brand-new glass recycling facility with Redwave's world-class optical sorters we've doubled the amount of glass we can recycle. Our partnership with Redwave means we have state-of-the-art equipment supported by a trusted and reliable technology partner."

Here, as general contractor, Redwave was responsible for the entire process of design, engineering, delivery, installation and commissioning - all while ensuring a maximum cullet yield.

REVOLUTIONIZING GLASS PROCESSING

With a processing capacity of 200,000 tonnes annually, the new plant will receive two-thirds of the input from kerbside mixed recycling collections



A global leader in glass recycling solutions, REDWAVE recently supplied Australia's most advanced glass recycling facility, which has been valued at around EUR 20M. Designed to process 200,000 tonnes of recycled glass per year, this cutting-edge facility represents a significant leap forward in glass recycling technology.

(MRF Glass) and one-third from the newly established Victorian container deposit scheme (CDS Glass). On arrival, the glass is meticulously sorted into three different colours, down to three millimetres in size. This systematic sorting ensures a reliable supply of flint (clear), amber, and green glass for future glass production. The plant also maximises the use of by-products, minimising the impact on landfill and recovering valuable secondary materials. Remarkably, the sorting operates autonomously, eliminating the need for manual sorting - a pioneering achievement in glass processing.

INNOVATIVE SENSOR TECHNOLOGY

REDWAVE has devised an ingenious solution to the unique challenges posed by



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Opening ceremony: f.l.t.r: Visy Chairman Anthony Pratt, Visy Co-owner Fiona Geminder, Victorian Minister for Environment Steve Dimopoulos, Visy CEO Mark De Wit

glass-ceramics, which behave differently to ordinary glass when melted. Using its proprietary CX camera and lighting unit, the system skillfully separates glass-ceramics, ceramics, stones, porcelain, and off-colours through a multi-stage sorting process.

INCREASED EFFICIENCY WITH REDWAVE MATE SMART PLANT

The implementation of REDWAVE mate smart plant software optimises plant efficiency by collecting and processing real-time production data. This data empowers operators and enables autonomous plant operation, all tailored to meet customer requirements. At the heart of this data collection are REDWAVE's sorters, which act as data hubs to relay critical information to the software.



DIGITAL SALES LANDSCAPE

Navigating this major plant sale during the global pandemic required innovation. REDWAVE rose to the challenge by making the entire sales process digital. With a remarkable commitment to the customer experience, all interactions, including reference visits and sorting tests, were conducted virtually,

bridging distances of 16,000 kilometres and an eight-hour time difference.

FOLLOW-UP ORDER

As a testament to the success of the project, a follow-up contract to build another glass recycling facility at the Yatala site near Brisbane has been awarded. This project is already underway and is scheduled for completion in

early 2025. Meanwhile, speaking on the impact of the new facility in Australia, Redwave CEO Silvia Schweiger-Fuchs said: "We take pride in Redwave's significant contribution to reducing glass landfilling in Australia. With our exceptional sorting quality, we can now reintroduce this glass into the recycling loop, facilitating the creation of new bottles." ■



ABOUT REDWAVE

Redwave offers pioneering and economically-viable solutions in the recycling sector. The company provides sorting systems for recyclables and sensor-based sorting machines for the recovery of secondary raw materials. In addition to sensor technology, Redwave supplies complete sorting machine systems - taking full responsibility for the sorting results. With in-house expertise in software and hardware, the company remains agile in meeting customer needs and market demands.

REDWAVE

REDWAVE
a division of
**BT-Wolfgang
Binder GmbH**

Wolfgang Binder Str. 4
8200 Eggersdorf bei Graz - AUSTRIA
Tel.: +43 3117 25152 2200
E-mail: office@redwave.com
www.redwave.com